



## Service & Repair Notes (SRN)

### Bulletin

#### Technical Information

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**EXPIRES: N/A**

**SUBJECT:** A Quantar IntelliRepeater (IR) with an EPIC II E-version Station Control Board (SCB) may cause another IR channel on the LAN to reset upon power up.

**SYSTEMS AFFECTED:** ASTRO® SmartZone® 3.0, 3.5 and 4.1

#### **MODELS and OPTIONS AFFECTED:**

- T5365 Quantar® with the one of the following options:
- X898 SmartZone IntelliRepeater® ASTRO CAI
- X999 SmartZone IntelliRepeater®
- CLN1294 FRU – EPIC-II IR station control module (CLN6960E version only)

**SYMPTOMS:** When powering up a repaired IR station/channel with a CLN6960E Station Control Board (SCB), the potential exists for one other IR channel on the LAN to reset. Any one IR channel on the LAN may reset depending upon the LAN activity at the time of the AC power up of the repaired IR. Depending upon the type of IR channel that resets due to this issue, the site will revert to one of the following transitional modes.

If the resetting IR is currently a Control Channel (CC), the CC functionality will revert/roll to the next highest priority control capable channel. If the Link Repeater (LR) resets, the site will transition to Site Trunking until the LR completes the reset process. If a Voice Channel resets during a call, the call will be interrupted. The originating user of the voice call will transition to the CC after releasing PTT such that the call process can resume. In all scenarios, the reset time of the IR channel is typically under 60 seconds.

**CAUSE:** An unterminated pin on the Ethernet transceiver produces a burst of noise on the Site LAN when the repaired IR station is powered up. At this moment, the IR channel that is receiving data on the LAN will receive the noise burst as LAN activity, and may be unable to process the noise burst data. An IR reset occurs when the input buffers become full, and there is no memory available for the LAN processing task.

**RECOMMENDATION:** The power up of a repaired IR station, that is equipped with a CLN6960E version control board, should be scheduled to be done during a period of low call processing activity at the site - as required to minimize the impact on the IR site call processing capability when one of the IR stations resets.

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